

FUEL CELL WITH INTEGRAL MANIFOLD**ABSTRACT**

- 5 A MEMS-based fuel cell has a substrate, an electrolyte in contact with the substrate, a cathode in contact with the electrolyte, an anode spaced apart from the cathode and in contact with the electrolyte, and an integral manifold for supplying either a fuel or an oxidant or both together, the integral manifold extending over at least a portion of the electrolyte and over at least one of the
- 10 anode and cathode. Methods for making and using arrays of the fuel cells are disclosed.